

REPORT
OF THE
MEDICAL OFFICER OF HEALTH

For the Year ended 31st December, 1909.

LONGSHUTS, HURST,
February, 1910.

*To the Chairman and Members of the
Hurst Urban District Council.*


GENTLEMEN,

I beg to present to you my Annual Report on the Health and Sanitation of the District, together with statistics of the Births and Deaths and the incidence of Disease.

I am, Gentlemen,

Your obedient servant,

ALBERT HILTON.



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HURST URBAN DISTRICT.

Area and Population.

The area of the Hurst Urban District is 754 acres. The population, estimated according to the Registrar-General's method, to the middle of 1909 is 7,420. As a matter of fact, however, owing partly to the erection of cotton mills, and consequently the building of dwelling-houses, the population has increased rapidly during the past few years, and if a census were now taken would be found to exceed 8,000.

The subjoined table allows a comparison to be made with regard to area, population, &c., &c., between the Hurst Urban District and the averages for Urban Districts in the County in 1908.

	Area in Acres	Estimated Population	Persons per Acre	Acres per Person
Hurst, 1909.....	754	7,420	9·84	0·11
Total Urban Districts in County, 1908	273,767	1,004,036	3·66	0·27

Industries.

The main industries are those of cotton spinning and manufacturing.

Geology.

In the following table of the arrangement of the Rock Systems forming the earth's crust, the division, system, &c., &c., to which the country in and around Hurst belongs are indicated by large type.

PRIMARY DIVISIONS.	SYSTEMS.	FORMATIONS.	LIFE-TYPES.
QUATERNARY.	POST-TERTIARY.	RECENT. GLACIAL or PLEISTOCENE.	ANTHROPOZOIC.
TERTIARY.	TERTIARY.	Pliocene. Miocene. Oligocene. Eocene.	CENOZOIC.
SECONDARY.	CRETACEOUS.	Chalk or Upper Cretaceous. Neocomian or Lower Cretaceous. Oolitic (Upper, Middle, Lower). Liassic. Rhætic. Keuper. Muschelkalk (of Germany). Bunter.	MESOZOIC.
PRIMARY.	PERMIAN or DYASSIC. CARBONIFEROUS. OLD RED SANDSTONE or DEVONIAN. SILURIAN. ORDOVICIAN. CAMBRIAN.	Magnesian Limestone. Permian Sandstone. Upper Coal Measures. MIDDLE COAL MEASURES. Lower Coal Measures or Gannister Bed. Millstone Grit. Mountain Limestone Series. Upper, Middle, and Lower Divisions. Ludlow. Wenlock. Llandovery. Caradoc. Llandeilo. Arenig. Tremadoc. Lingula. Menevian. Harlech.	DEUTEROZOIC.
ARCHÆAN.	PEBIDIAN AND URICONIAN ROCKS OF WALES. HEBRIDEAN ROCKS OF SCOTLAND.		PALÆOZOIC. PROTEROZOIC. EZOIC.

The strata entering into the formation of the “Middle Coal Measures” referred to in the preceding table are shown in the pit sections of Broadoak and Hurst Nook Collieries, as under :—

	Feet.	Ins.
Recent Deposit.		
Glacial Deposit.		
Strong Metal or Shale.....	60	0
Lees Mine... ..	1	6
Strata, principally Sandstone	62	3
Hurst Old Mine	3	6
Very strong Shale	45	0
Hurst New Mine.....	3	3
and		
Sandstone and Shale from.....	300 to 350	0
Royley Mine or Lower Woodley Mine about	3	6
with partings of Shale.		

The subjoined data, relating to the superficial strata (alluvial deposits, subsoils, &c), have been obtained by the Surveyor during the cutting of sewer trenches or by means of trial holes

Lower King Street to Vicarage (including about 50 yards on each side), and neighbourhood of Vicarage and St. John’s Church :—

Soft stone shale 4 to 8 feet.
Solid hard rock.

From St. John’s Schools onward there is

Hard yellow clay, 4 feet, over the stratum of
Soft stone shale

Higher King Street, Hurst Nook, neighbourhood of Cemetery, Rose Hill, and Moss de Lee :—

Bed of soil 1 foot.
Hard yellow clay 3 to 4 feet.
Hard blue marl 4 to 8 feet.

(There is quicksand below the hard blue marl at Rose Hill and Moss de Lee).

Queen Street, Hurst Brook, Wood Lane, Smallshaw, Holebottom, Broadoak, Henrietta Street, and Turner Lane :—

Bed of Soil	1 to $1\frac{1}{2}$ feet.
Hard yellow clay.....	16 to 18 feet.

Topography.

Hurst is bounded on the north, east, and west by the Rural District of Limehurst, and on the south by the Borough of Ashton-under-Lyne. The surface rises rapidly from its lowest part, Water Street (south), about 400 ft. O. D., to its highest at Moss de Lee (east) about 600 ft. O. D.

The figures given below are those of the Ordnance Bench-marks at the points indicated :—

Bottom of Hillgate Street... ..	402·4 feet.
Corner of Bengal Lane	459·9 „
Corner of Board Street (Council Offices)	482·7 „
Church Inn	514 „
Nook Inn	514·6 „
United Methodist Church (Queen-st.) ...	486·9 „

For convenience the following, although not in the

Township of Hurst, are inserted :—

Park Square, Mossley Road	519·3 feet.
Ashton Barracks	543·6 „
Junction Inn, Mossley Road.....	631 „
Dirt Farm	660·2 „

TABLE COMPILED FROM RESULTS OF DAILY METEOROLOGICAL OBSERVATIONS
TAKEN AT 9 O'CLOCK A.M. AT STAMFORD PARK.*

DATE	HYGROMETER		MEAN TEMPERATURES				Rainfall 12in. above ground
	Dry	Wet	Maximum in Shade	Minimum in Shade	Minimum in Sun. Bright Bulb	Maximum in Sun. Black Bulb in vacuo.	
1909							
January	36	35	42	32	27	47	2·07
February.....	36	35	42	31	25	53	2·05
March	37	36	43	31	26	53	3·23
April	48	44	57	37	32	77	3·78
May.....	52	47	60	40	35	84	2·25
June	53	50	60	45	39	83	2·45
July.....	57	54	57	50	45	84	6·28
August	58	56	67	50	46	85	3·44
September	53	51	59	45	40	73	2·63
October	49	48	59	44	39	69	5·44
November	39	38	44	33	29	52	1·29
December	38	39	42	32	27	48	6·54
							41·45

* For these details I am indebted to Mr. Samuel Turner, Park Superintendent.

Water Supply.

The water supply is derived from the extensive reservoirs under the control of the Ashton-under-Lyne, Stalybridge and Dukinfield (District) Waterworks Joint Committee

Of the various undertakings in connexion with these Waterworks the Hurst Urban District Council are proprietors to the extent of about one-fifteenth part, and are represented on the Joint Committee by one member.

The total area of the gathering ground is 2,470 acres, being 1,300 acres for the Swineshaw Reservoirs and 1,170 acres for the Greenfield and Yeoman Hey Reservoirs.

The condition of affairs at the end of the year 1909 is shown in the following statement of the consumption and storage of water for the week ending 31st December, 1909.

DISTRICT	Consumption.	Supply from Swineshaw.	Supply from Greenfield
	Gallons	Gallons	Gallons
Ashton-under-Lyne and Hurst	8,874,000	1,120,000	7,754,000
Stalybridge	3,494,000	3,494,000	.. ..
Dukinfield	2,188,000	2,188,000	.. ..
Mossley	1,606,000	1,326,000	280,000*
Saddleworth	1,291,000	.. ..	{ 1,249,000 42,000*
Total for Domestic Purposes	17,453,000	8,128,000	9,325,000
Compensation... ..	10,701,157	5,598,028	†5,103,129
Total	28,154,157	13,726,028	14,428,129

* Estimated. † Average at Greenfield.

DEPTHS AND CONTENTS OF WATER IN THE RESERVOIRS.

NAME	Depths.	Capacities.	Height of Water.		Contents.
	Feet	Gallons	Ft.	Ins.	Gallons
Walker Wood ...	61	202,084,000	61	0	202,084,000
Brushes	44	52,165,000	44	0	52,165,000
Lower Swineshaw	33	55,500,000	32	6	51,705,000
Higher Swineshaw	53	168,908,000	53	0	168,908,000
Yeoman Hey ...	65	205,596,000	65	0	205,596,000
Greenfield	62	101,686,000	62	0	101,686,000
Knott Hill	44	64,000,000	43	11	63,706,000
Dukinfield	24	33,000,000	22	3	30,383,000
Total		882,939,000	. . . .		876,233,000

	Gallons	Increase, Gallons	Decrease, Gallons
Contents of Reservoirs week ending 31st December, 1909	876,233,000	.....	.....
Contents of Reservoirs corresponding period last year	606,608,000	269,625,000	.....

Week ending 31st December, 1909 876,233,000

Do. 24th do. 875,297,000

Increase..... 936,000

	Swineshaw	Greenfield	Knott Hill
Total rainfall for the year 1909...	53·20	51·00	42·83
Do. do. 1908...	45·46	42·90	
Increase, 1909.....	7·74	8·10	

Result of analysis of water from Lower Swineshaw Reservoir, December 14th, 1908.

SWINESHAW VALLEY.

Careful analysis gave the following results:—

	Grains per gallon.
Chlorine (combined)	0·940
Ureal Ammonia.....	0·0154
Albumenoid Ammonia	0·0084
Nitrogen as Nitrates, &c.	0·0335
Oxygen absorbed in 4 hours at 80° F. from Potassium Permanganate.....	0·1280
Total solid matter on evaporation	7·08
Total mineral matter on ignition	5·03
Total volatile matter on ignition.....	2·05
Total hardness degrees, Clarke's scale	3·38°

Appearance on standing—clear, with slight peaty sediment.

Bacteriological examination.—By plate culture only the ordinary forms of micro-organisms were found. No organisms of a pathogenic character were detected.

Result of analysis of water from Knott Hill Reservoir, supplied from Greenfield Valley, January 14th, 1909.

GREENFIELD VALLEY.

Careful analysis gave the following results:—

	Grains per gallon.
Chlorine (combined)	0·850
Ureal Ammonia.....	0·0140
Albumenoid Ammonia	0·0084
Nitrogen as Nitrates, &c.	0·0276
Oxygen absorbed in 4 hours at 80° F. from Potassium Permanganate.. ..	0·112
Total solid matter on evaporation	7·10
Total mineral matter on ignition.....	5·00
Total volatile matter on ignition.....	2·10
Total hardness degrees, Clarke's scale	4·6°

Bacteriological examination.—By plate culture only the ordinary forms of micro-organisms found in pure water were observed. No pathogenic organisms were found.

Lead-Poisoning.

With a view to preventing plumbo-solvency, carbonate of lime, in the form of whiting, is continuously mixed with the impounded water previous to distribution.

Sewerage and Drainage.

The whole of the District is efficiently drained by means of pipe sewers, varying from 9 inches to 18 inches in diameter, and egg-shaped brick sewers, 36 inches by 24 inches. These are well ventilated by man-holes and lamp-holes, and when necessary are flushed by water from water-carts. Owing to the nature of the ground the sewers have extremely good falls, and ultimately discharge into the main sewers of the Borough of Ashton-under-Lyne. By them the sewage is conveyed to the Ashton-under-Lyne Sewage Disposal Works, where it undergoes treatment by precipitation and filtration by contact beds. The sludge is afterwards pressed into cakes.

House Drainage.—Every house is drained, generally by means of a yard-drain, and all house-drains are disconnected from the sewers by syphon traps.

Notable Sanitary Improvements during 1909.

The Sewerage Scheme, by which the houses and land at and about Hurst Cross are now efficiently drained, was completed.

Births.

March Quarter	.....	56	Annual Rate...	30·1
June	„	58	„	31·2
September	„	53	„	28·5
December	„	54	„	29·1
		<hr/>		
Total for Year	...	221	„	29·7

Of these 123 were females and 98 males, an excess of females over males of 11·3 per cent. The total for the year is 22 above the average for the 10 years 1899-1908 inclusive, and also shows an increase over that for any individual year in that decade, although in 1900, on account of the then smaller population, the rate was slightly higher.

The majority of births over deaths, representing the natural increase in the population, was 101.

Deaths.

March Quarter	.....	34	Annual Rate...	18·3
June	„	33	„	17·7
September	„	21	„	11·3
December	„	32	„	17·2
		<hr/>		
Total for Year	...	120	„	16·1

Males, 65 ; Females, 55.

62 occurred in East Ward, and 58 in West Ward.

The death rate is 1·3 lower than for 1908, and exactly the same (1·3) lower than the average for the ten years, 1899-1908.

The following table shows the principal causes of death :—

Cancer	9
Bronchitis	9
Pneumonia	17
Phthisis	7
Heart Diseases	8
Brain Diseases	14

Twenty-four out of the total 120 deaths were those of infants under 1 year of age.

Twenty-two were those of persons over 65 years of age. Of these 22—15 were over 70, 6 over 80, and 1 over 90.

Two persons died in public institutions outside the district.

				Rate 1909.	Rate 1908.
Deaths of Infants under the age of 1 year ...	24	...	3·23	...	6·09
Deaths of Children under the age of 5 years ...	37	...	4·98	...	8·79
Deaths from Zymotic Diseases	10	...	1·34	...	2·70
Deaths from Phthisis	7	...	0·94	...	0·81
Deaths from Respiratory Diseases	27	...	3·63	...	3·38

Infantile Mortality.

The proportion of deaths of infants under the age of one year to each 1,000 registered births was 108. This is 108 (exactly 50 %) lower than the rate for last year and 72 less than the average for the 10 years 1899-1908 inclusive. It is probably the lowest on record for the District.

An analysis of Table V. at end of Report can only give satisfaction chiefly on account of the marked diminution in the number of deaths due to diseases arising from improper feeding and exposure to cold, 14 deaths from these groups of diseases only being recorded, as against 29 in 1908 and 24 in 1907.

IMPROPER FEEDING.		EXPOSURE TO COLD.	
Convulsions.....	2	Bronchitis	3
Diarrhœal Diseases ..	1	Pneumonia	5
Marasmus (Wasting).	3		
	6		8
Total		...	14

Infectious Diseases.

The total number of deaths caused by the principal Zymotic Diseases was 10, equalling an annual rate of 1·34, and representing 8·5 per cent. of the total deaths from all causes.

This rate (1·34) is 1·36 less than the rate for 1908, and ·74 less than that for 1907.

The annexed Table shows the diseases to which these deaths were attributed, and the months in which they occurred.

	TOTAL	Small-pox	Measles	Scarlet Fever	Diarrhoea	Diphtheria and Mem. Croup	Whooping Cough	Fevers :— Typhus, Enteric, and Continued
January .....	...	...	..	..	...	...	...	...
February	2	...	1	..	...	..	...	1
March	3	...	1	1	...	1	..	...
April	1	..	1	...	..	...	..	...
May	2	..	1	1	...	...	...	...
June	1	...	1	...	..	...	...	...
July .....	...	..	...	..	...	...	...	...
August .....	..	...	...	...	...	...	...	...
September .....	..	...	..	..	..	...	...	...
October	1	...	...	..	...	...	1	...
November .....	...	...	..	...	...	...	...	...
December .....	...	...	...	..	...	...	...	...
TOTALS	10	..	5	2	...	1	1	1

There were no deaths from Small-pox, Diarrhoea, Typhus Fever, or Continued Fever.

The following Diseases are notifiable in the District, viz., Small-pox, Cholera, Diphtheria (including Membranous Croup), Erysipelas, Scarlet Fever, Typhus Fever, Enteric Fever, Relapsing Fever, Continued Fever, Puerperal Fever, Plague, and Cerebro-Spinal Meningitis.

The number of cases notified during the year was 70.

An analysis of these is given in the Table below, together with the months in which they were reported.

	TOTALS	Diphtheria and Mem. Croup	Erysipelas	Scarlet Fever	Enteric Fever	Puerperal Fever
January.....	5	...	...	5	...	...
February	5	...	...	4	1	...
March	8	2	...	5	...	1
April	7	...	1	2	3	1
May	7	...	1	5	1	...
June	7	...	1	6	...	...
July	10	...	2	7	1	...
August ..	2	...	...	2	...	...
September.....	6	...	...	5	...	1
October ..	8	...	...	7	1	...
November ..	2	...	...	2	...	...
December	3	1	...	2	...	...
TOTALS.....	70	3	5	52	7	3

Small-pox.—Ample accommodation for the treatment of Small-pox cases is provided at the Small-pox Hospital belonging to the Ashton under-Lyne and District Joint Hospital Board, to which body the Hurst Urban District Council send one representative.

There is at the Hospital a plentiful supply of good water, and a reservoir has just been completed with a storage capacity of nearly 100,000 gallons.

No cases of Small-pox were reported during 1909.

Diphtheria and Membranous Croup.—Three cases were reported—one death resulting.

Erysipelas.—Five cases from four houses; no deaths.

Scarlet Fever.—Fifty-two cases were reported from 44 houses, and 2 deaths ensued. The disease was mildly epidemic during the whole year, but at no period did it assume such proportions as necessitated closure of schools.

Measles.—After the epidemic of last year, on account of which St. John's Schools were closed, the disease gradually subsided, and although 5 deaths have resulted from it, there has been no great number of children attacked. The following remarks of the County M.O.H., Dr. Sergeant, taken from his Annual Report for 1908, are conveniently inserted here.

“As measles is so frequently spread in schools, more especially among infants under the age of five years, it is desirable that the school teachers should carefully watch the children under their care for the first symptoms of disease, and in case of suspicion the local Medical Officer of Health should be promptly notified. The difficulties of staying the spread of infection in the case of measles are considerably enhanced, owing to the fact that a child may be highly infectious during the early period of attack while suffering from symptoms similar to an ordinary cold, and before the appearance of the characteristic rash on the third or fourth day.”

Whooping Cough (not notifiable).—One death.

Enteric Fever.—Seven cases, from five houses ; one death. Investigation of each case yielded no information tending to point to any common cause.

Diarrhœa.—It is with great satisfaction that one notes that not a single death occurred from this disease.

Great inconvenience often arises from the want of accommodation for infectious diseases other than Small-pox.

PHTHISIS (PULMONARY TUBERCULOSIS).

This disease was the cause of seven deaths, which gives a rate of 0·94, a slight increase on that of 1908 (0·81), but still considerably below that for 1907 (1·35), which may be considered an average year.

Five notifications were received in connexion with “The Public Health (Tuberculosis) Regulations Act, 1908.”

THE MIDWIVES’ ACT, 1902.

No woman is entitled to use the name or description of “Midwife” unless she has obtained the Certificate of the Central Midwives’ Board.

The following is a LIST OF CERTIFIED MIDWIVES on the County Register, residing in the Urban District of Hurst. (31st December, 1909):—

Jackson, Sarah 104, Hillgate-st., Hurst Brook.
 Gilroy, Elizabeth..... 33, William-st., off Curzon-rd.
 Lees, Sally 365, Higher King-st., Rose Hill.
 Matthewman, Ada ... 148, Hope Street.
 Bailey, Margaret Ann. 222, King Street.

SURVEYOR'S REPORT.

Industries.—The main industries are those of cotton spinning and manufacturing.

Factory and Workshops Act.—There are six mills and eighteen workshops in the District. Regular visits are made to all the above places every two months, and the condition in which they are found is reported upon to the Council. The mills are well equipped with modern conveniences (to accommodate both sexes), and both mills and workshops fulfil all the requirements of the Act.

Farms, Cowsheds, Dairies, and Milkshops.—There are eight farms with cowsheds and dairies, and twelve milkshops in the District. Visits are made every two months, and their condition reported upon to the Council. The farms are kept in a very clean condition. Improvements have been made at one farm, and the utmost endeavour is being made to bring all the farms in the District up to the standard of the “Model” Cowshed Regulations, which have been adopted by the Council.

House Inspections.—House to house inspection is carried on throughout the year, and a record kept and reports made to the Council. Much good work is accomplished by this means, houses being kept cleaner, and the possibilities of overcrowding considerably reduced. In all cases where nuisances were found, the owner's attention was drawn to the same, and they have been remedied.

Smoke Nuisance.—Smoke observations have been taken every month during the year at the mills and workshops, and owner's attention called to any smoke nuisance of an objectionable character. A record of the observances is kept for reference, and reports made to the Council monthly. Regular attention to this matter has brought about marked improvements in the matter of smoke emissions from mills and workshops. The following is a list of the observances for the year :—

TABLE SHOWING THE DIFFERENT KINDS OF SMOKE EMITTED AT EACH PLACE.

	Hurst Mills Co.				Stanford Commercial				Cedar Mill Co.				Carzon Mill Co.				Whittakers Limited				Ino Sykes				Tippings Limited				Jno. Barlow																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	Dense		Moderate		Fine		None		Dense		Moderate		Fine		None		Dense		Moderate		Fine		None		Dense		Moderate		Fine		None																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Slaughter-Houses.—There are six in the District. These are visited and inspected regularly throughout the year. Surprise visits are made at various times, but the places are in good condition, and in a clean and satisfactory state generally.

Bakehouses.—There are fourteen above ground level and one below. These are visited and inspected every two months, and reports made to the Council on their condition. They are generally found satisfactory.

The underground bakehouse is in accordance with the Act of 1901.

The Nightsoil Department is attended to by the Council, and the work is done in an efficient manner. The following table shows the work of this department :—

1909.	Number of Ashpits Emptied	Number of Houses	Number of Loads of Ashes	Number of Closet Pails Collected and Cleaned	Cost including Team Labour
					£ s. d.
January	629	1025	197	179	16 15 11½
February	634	1030	187	179	14 10 9
March	765	1265	209	171	18 1 0
April	630	992	166	143	14 18 5
May	585	923	161	149	13 11 8
June	587	977	169	152	13 2 10
July	822	1490	230	144	17 14 0
August	551	888	134	107	12 2 4
September...	869	1269	215	166	16 17 4
October	737	1161	180	108	13 19 6
November...	701	1136	159	126	13 16 4
December	875	1353	192	137	15 0 0
	8385	13509	2199	1761	190 10 1½

Several notices have been served on owners to abate nuisances of various kinds during the year, and in a number of cases owner's attention has been verbally called to sanitary defects, and in all cases the request to remedy any nuisances has been readily complied with.

Twenty-two sewer connections have been made during the year, and these have been thoroughly examined and inspected.

Declared Highways are properly scavenged weekly, and all gullies emptied and cleaned and refuse deposited on tips.

Plans of eighteen houses and one shop, also plans of two alterations to property and one Infant School have been approved by the Council during the year.

There are 1884 houses in the District.

Closet accommodation per house is as the following details show :—

Houses.		Closets.		Accommodation.
1569	with	1569	or	100 per cent.
191	„	127	„	70 „
58	„	29	„	50 „
66	„	26	„	38 „
<hr/> 1884	„	<hr/> 1751		

The analysis of the closets in use is as follows :—

Waste water closets at houses	1489
Town's water closets at houses	65
Pail closets at houses	84
Privy closets at houses	121
	<hr/>
	1759
 Town's water closets at mills and workshops ..	 208
Pail closets at workshops	3
Privy closets at schools	8
	<hr/>
	1978
	<hr/> <hr/>

The Council has, during the year, carried out extensive work of Sewering and Street Improvements. The sum of £4,329, sanction to borrow which was granted by the Local Government Board during last year, to carry out work under the Private Street Works Act of 1902, has been expended, and nine streets have been completed and five streets sewered. In addition to these three other streets have been sewered by arrangement with the frontagers.

The Council has instructed the Surveyor to prepare plans, provisional estimates, and approximate apportionments of work required for sewerage and completing eight other streets in various parts of the District. The above particulars, showing an estimated cost of over £8,000, are complete and are now under consideration by the Council.

Infectious Diseases.—There have been 70 cases of infectious disease reported during the year :—

Scarlet Fever	...	...	...	...	...	52
Typhoid Fever	...	...	...	...	...	7
Diphtheria	...	...	...	...	...	3
Puerperal Fever	...	...	...	...	..	3
Erysipelas	...	...	..	...	...	5
Total	...	...	...	...	...	<hr/>70 <hr/>

Scarlet Fever cases have been reported from 44 houses.

Typhoid Fever	„	„	„	„	5	„
Diphtheria	„	„	„	„	3	„
Puerperal Fever	„	„	„	„	3	„
Erysipelas	„	„	„	„	4	„
Total number of houses affected	...	...	...	...	<hr/>59 <hr/>	

The above cases were reported during the following months of the year :—January, 5 Scarlet Fever. February, 4 Scarlet Fever, 1 Enteric Fever. March, 5 Scarlet Fever, 2 Diphtheria, 1 Puerperal Fever. April, 2 Scarlet Fever, 1 Puerperal Fever, 3 Enteric Fever, 1 Erysipelas. May, 5 Scarlet Fever, 1 Erysipelas, 1 Typhoid. June, 6 Scarlet Fever, 1 Erysipelas. July, 7 Scarlet Fever, 1 Enteric Fever, 2 Erysipelas. August, 2 Scarlet Fever. September, 5 Scarlet Fever, 1 Puerperal Fever. October, 7 Scarlet Fever, 1 Enteric Fever. November, 2 Scarlet Fever. December, 2 Scarlet Fever, 1 Diphtheria.

The following is a list of cases reported, giving situation of premises. In all cases the premises were visited and inspected, all nuisances remedied, disinfectants supplied, and the houses thoroughly fumigated :—

Scarlet Fever.—

Age 9 years.	Jan.	3rd,	9, Hillgate Street.
Age 10 years.	Jan.	7th,	82, Princess Street.
Age 8 years.	Jan.	9th,	82, Princess Street.
Age 12 years.	Jan.	21st.	Glengarth, Smallshaw
Age 5 years.	Jan.	27th,	349, Higher King St.
Age 5 years.	Feb.	3rd,	12, Water Street.
Age 3 years.	Feb.	3rd,	12, Water Street.
Age 7 years.	Feb.	24th,	51 Queen Street.
Age 4 years.	Feb.	24th,	51, Queen Street.

Enteric Fever.—

Age 24 years.	Feb.	24th,	67, Hope Street.
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Scarlet Fever.—

Age 2 years.	Mar.	9th,	3, Ladbroke Road.
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Diphtheria.—

Age 7 years.	Mar.	8th,	Cocks o'th Oak Farm, Broadoak Road.
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Scarlet Fever.—

Age 4 years	Mar.	12th,	1, Ladbroke Road.
Age 6 years.	Mar.	13th,	5, Claremont Street.
Age 5 years.	Mar.	13th,	5, Claremont Street.
Age 12 years.	Mar.	19th,	33, Paradise Street.

Diphtheria.—

Age 4 years.	Mar.	28th,	89, Hillgate Street.
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Puerperal.—

Age 35 years.	Mar. 29th,	155, Queen Street.
Age 23 years.	April 8th,	2, Wood Lane, Smallshaw.

Scarlet Fever.—

Age 4 years.	April 7th,	89, Hillgate Street.
Age 1 year.	April 20th,	1, St. Mary Street.
Age 3 years.	April 26th,	Old Set, Broadoak Road, Smallshaw.

Enteric Fever.—

Age 30 years.	April 29th,	8, Swift Street.
Age 5 years.	April 29th,	8, Swift Street.
Age 4 years.	April 29th,	8, Swift Street.

Erysipelas.—

Age 55 years.	April 26th,	8, Ladbroke Road.
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Scarlet Fever.—

Age 12 years.	May 4th,	14, Water Street.
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Erysipelas.—

Age 2 years.	May 5th,	5, Oldham Street.
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Scarlet Fever.—

Age 2 years.	May 8th,	6, Whitworth Street
Age 4 years	May 8th,	108, Hillgate Street.
Age 4 years.	May 10th,	Belfield House, Smallshaw.
Age 4 years.	May 13th,	99, Queen Street.

Typhoid Fever.—

Age 39 years.	May 18th,	16, Hope Street.
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Scarlet Fever.—

Age 24 years.	June 11th,	11, Water Street.
Age 6 years.	June 11th,	29, Crompton Street.

Erysipelas.—

Age 44 years.	June 16th,	38, Hope Street.
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Scarlet Fever.—

Age 7 years.	June 21st,	16, Queen Street.
Age 3 years.	June 23rd,	70, Hope Street.
Age 7 years.	June 28th,	10, Heys Street.
Age 32 years.	June 30th,	Oak Lea, Broadoak.
Age 4 years.	July 1st,	36, Nook Lane.

Enteric Fever.—

Age 26 years.	July 5th,	23, Diamond Street.
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Scarlet Fever.—

Age 9 years.	July 14th,	65, Elizabeth Street.
Age 10 years.	July 14th,	65, Elizabeth Street.
Age 1 year.	July 14th,	65, Elizabeth Street.
Age 7 years.	July 18th,	3, Pekin Street.

Erysipelas.—

Age 13 years.	July 22nd,	60, Hope Street.
Age 60 years.	July 27th,	131, Hope Street.

Scarlet Fever.—

Age 37 years.	July 29th,	1, Albion Street.
Age 8 years.	Aug. 17th,	68, Lower King Street.
Age 7 years.	Aug. 25th,	25, Pot Hill Square.
Age 10 years.	Sept. 21st,	197, Curzon Road.
Age 15 years.	Sept. 21st,	197, Curzon Road.
Age 6 years.	Sept. 21st,	197, Curzon Road.

Puerperal Fever.—

Age 28 years. Sept. 23rd, 78, New Lees Street.

Scarlet Fever.—

Age 9 years. Sept. 25th, 155, Queen Street.

Age 14 years. Sept. 28th, 61, Smallshaw Lane.

Age 14 years. Oct. 10th, 80, Princess Street.

Enteric Fever.—

Age 17 years. Oct. 11th, 162, Lower King
Street.

Scarlet Fever.—

Age 10 years. Oct. 18th, 155, Queen Street.

Age 10 years. Oct. 18th, 8, John Street.

Age 9 years. Oct. 25th, Moss Lea,
Henrietta Street.

Age 14 years. Oct. 28th, 89, Queen Street.

Age 8 years. Oct. 30th, 164, Turner Lane.

Age 7 years. Nov. 1st, 213, Higher King
Street.

Age 4 years. Nov. 1st, Cranbourne Terrace,
Smallshaw.

Age 4 years. Nov. 23rd, 2, Alfred Street.

Age 6 years. Dec. 1st, 8, Mount Pleasant
Street.

Diphtheria.—

Age 7 years. Dec. 9th, 23, Heys Street.

Scarlet Fever.—

Age 6 years. Dec. 23rd, Claremont Street.

STATISTICAL TABLES.

TABLE I.
BIRTHS AND DEATHS FOR THE WHOLE DISTRICT.

Year.	Population estimated to Middle of each Year	BIRTHS.		TOTAL DEATHS REGISTERED IN THE DISTRICT				Deaths of Residents registered in Public Institutions beyond the District	NET DEATHS AT ALL AGES BELONGING TO THE DISTRICT	
		Nnumber	Rate*	Under 1 Year of Age		At all ages			Number	Rate*
				Number	Rate per 1000 Births registered	Number	Rate*			
1899.....	6920	196	28.35	44	224	137	19.7	0	137	19.7
1900.....	6920	217	31.35	47	216	138	19.9	0	138	19.9
1901.....	7145	201	27.13	40	199	117	16.3	0	117	16.3
1902.....	7145	192	26.87	29	151	126	17.6	0	126	17.6
1903.....	7145	178	24.91	28	157	127	17.7	0	127	17.7
1904.....	7300	191	26.16	36	188	126	17.2	0	126	17.2
1905.....	7300	208	28.49	26	125	111	15.2	0	111	15.2
1906.....	7300	202	27.67	39	193	127	17.3	0	127	17.3
1907.....	7354	200	27.19	28	140	115	15.6	1	116+	15.7
1908.....	7387	208	28.3	45	216	129	17.4	0	129	17.4
Averages for Years 1899-1908	7191	199	27.6	36	180	125.3	17.39		125.4	17.40
1909.....	7420	221	29.7	24	108	118	15.9	2	120+	16.1

Area of District in acres, 754.

Total population at all ages, 7145, at census of 1901; Number of inhabited houses, 1609; Average number of persons per house, 4.44.

Institutions outside the District receiving sick and infirm persons from the District :— Union Workhouse, Ashton-under-Lyne District Infirmary, Ashton-under-Lyne & District Joint Small-pox Hospital. Other Institutions, the deaths in which have been distributed among the several localities in the District :— *St. Mary's Hospital, Manchester; Home for Epileptics, Aughton, near Ormskirk. Union Workhouse, Slough.*

* Rates calculated per 1000 of Estimated Population.

TABLE II.
BIRTHS AND DEATHS.

Year	Population estimated to middle of each Year	Births Registered	Deaths at all Ages	Deaths under 1 Year
1899.....	6920	196	137	44
1900.....	6920	217	138	47
1901.....	7145	201	117	40
1902.....	7145	192	126	29
1903.....	7145	178	127	28
1904.....	7300	191	126	36
1905.....	7300	208	111	26
1906.....	7300	202	127	39
1907.....	7354	200	116	28
1908.....	7387	208	129	45
Averages of Years 1899 to 1908 } ...	7191	199	125.4	36
1909.....	7420	221	120	24

TABLE III.
CASES OF INFECTIOUS DISEASE NOTIFIED
DURING THE YEAR 1909.

Notifiable Disease	At all Ages	Under 1	1 to 5	5 to 15	15 to 25	25 to 65	65 and upwards	East Ward	West Ward
Small-pox	0	0	0	0	0	0	0	0	0
Cholera	0	0	0	0	0	0	0	0	0
Diphtheria (including Membranous Croup)	3	0	1	2	0	0	0	1	2
Erysipelas	5	0	1	4	0	3	0	3	2
Scarlet Fever	52	0	14	31	2	25	0	22	30
Typhus Fever	0	0	0	0	0	0	0	0	0
Enteric Fever	7	0	1	1	2	3	0	6	1
Relapsing Fever	0	0	0	0	0	0	0	0	0
Continued Fever	0	0	0	0	0	0	0	0	0
Puerperal Fever	3	0	0	0	1	2	0	2	1
Plague	0	0	0	0	0	0	0	0	0
Totals	70	0	17	38	5	10	0	34	36

Isolation Hospital for Smallpox : —Ashton-under-Lyne & District
Joint Small-pox Hospital.

TABLE IV.
CAUSES OF, AND AGES AT, DEATH DURING 1909.

CAUSES OF DEATH	DEATHS IN WHOLE DISTRICT AT SUBJOINED AGES.							East Ward	West Ward
	All Ages	Under 1	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and upwards		
Small-pox	0	0	0	0	0	0	0	0	0
Measles	5	2	3	0	0	0	0	3	2
Scarlet Fever... .. .	2	0	1	1	0	0	0	0	2
Whooping Cough	1	0	1	0	0	0	0	1	0
Diphtheria (including Mem- branous Croup)	1	0	0	1	0	0	0	0	1
Croup	0	0	0	0	0	0	0	0	0
Fever {	Typhus	0	0	0	0	0	0	0	0
	Enteric	1	0	0	1	0	0	1	0
	Other continued	0	0	0	0	0	0	0	0
Epidemic Influenza	0	0	0	0	0	0	0	0	0
Cholera	0	0	0	0	0	0	0	0	0
Plague	0	0	0	0	0	0	0	0	0
Diarrhœa (all forms).....	0	0	0	0	0	0	0	0	0
Enteritis (including Muco- enteritis, Gastro-enteritis....	2	1	0	0	0	1	0	1	1
Gastritis (including Gastro- intestinal Catarrh).....	0	0	0	0	0	0	0	0	0
Puerperal Fever	1	0	0	0	0	1	0	1	0
Erysipelas	0	0	0	0	0	0	0	0	0
Phthisis(Pulmonary Tuber- culosis)	7	0	0	0	1	6	0	5	2
Other Tuberculous Diseases.. .	2	0	1	0	0	0	1	1	1
Cancer Malignant Disease .. .	9	0	0	0	0	4	5	6	3
Bronchitis	9	3	0	0	0	1	5	3	6
Pneumonia	17	5	4	1	1	6	0	6	11
Pleurisy	0	0	0	0	0	0	0	0	0
Other Diseases of Respiratory Organs	1	0	1	0	0	0	0	1	0
Alcoholism	0	●	0	0	0	0	0	0	0
Cirrhosis of Liver)									
Venereal Diseases.....	2	2	0	0	0	0	0	1	1
Premature Birth	2	2	0	0	0	0	0	0	2
Diseases and Accidents of Parturition	2	0	0	0	1	1	0	1	1
Heart Diseases	8	0	0	1	0	6	1	6	2
Accidents	1	0	0	0	0	1	0	1	0
Suicides	0	0	0	0	0	0	0	0	0
All other causes.....	47	9	2	2	1	23	10	25	22
All causes	120	24	13	6	5	50	22	63	57

CAUSE OF DEATH.		Under 1 Week	1-2 Weeks	2-3 Weeks	3-4 Weeks	Total under 1 Month	1-2 Months	2-3 Months	3-4 Months	4-5 Months	5-6 Months	6-7 Months	7-8 Months	8-9 Months	9-10 Months	10-11 Months	11-12 Months	Total Deaths under 1 Year	East Ward	West Ward
Common Infectious Diseases	Small-pox	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Chicken-pox	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Measles	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	Scarlet Fever	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Diphtheria (including Membranous Croup) ..	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diarrheal Diseases	Whooping Cough	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Diarrhea, all forms	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Enteritis, Muco-enteritis, Gastro-enteritis	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1
	Gastritis, Gastro-intestinal Catarrh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Premature Birth	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wasting Diseases	Congenital Defects	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Injury at Birth	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Want of Breast-milk, Starvation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Atrophy, Debility, Marasmus ..	2	0	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	2
	Tuberculous Meningitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuberculous Diseases	Tuberculous Peritonitis : Tabes Mesenterica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Other Tuberculous Diseases ..	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Erysipelas	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Syphilis	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	2	1
	Rickets	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Meningitis(not Tuberculous)	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	2	1
	Convulsions	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Bronchitis	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
	Laryngitis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Pneumonia	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	5	3
	Suffocation, overlying	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	Other Causes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0
Totals		4	0	0	2	6	2	3	2	1	0	2	0	0	1	4	3	24	7	17

Total Births in the year, 221.

Deaths of Infants in the year, 24. Deaths from all causes at all ages, 120.

TABLE VI.

Annual Report on the administration of the Factory and Workshop Act, 1901, in connection with

FACTORIES, WORKSHOPS, LAUNDRIES, WORK-
PLACES AND HOMEWORK.

INSPECTION.					
PREMISES.	Inspections.	NUMBER OF			
		Written Notices.		Prosecutions.	
6 Factories	36	.....	0	.....	0
33 Workshops	198	.....	0	.....	0
0 Workplaces	0	.....	0	.....	0
Total	234	.....	0	.....	0

DEFECTS FOUND.							
PARTICULARS.	NUMBER OF DEFECTS.						
	Found.	Remedied.	Referred to H.M. Inspector.	Number of Prosecutions.			
Want of Cleanliness	0	0	0	...	0	...	0
Want of Ventilation	0	0	0	...	0	...	0
Overcrowding	0	0	0	...	0	...	0
Want of Drainage of Floors	0	0	0	...	0	...	0
Other Nuisances	0	0	0	...	0	...	0
Sanitary Accommodation. { insufficient... ..	0	0	0	...	0	...	0
(Sect. 22 adopted. { unsuitable or	0	0	0	...	0	...	0
1 Closet for every { defective ..	0	0	0	...	0	...	0
25 Persons.) { not separate	0	0	0	...	0	...	0
for sexes.....	0	0	0	...	0	...	0
Total	0	0	0	...	0	...	0

TABLE VI.—*continued.*

REGISTERED WORKSHOPS.

Workshops on the Register at the end of the year.	Number.
Bakehouses	15
Tailor and Clothier	1
Plumber	1
Wheelwright	1
Farrier and Blacksmith	1
Herb Beer Bottlers	3
Mineral Water Manufacturer	1
Hat Manufacturer.....	1
Charcoal Maker	1
Joiner and Builder.....	1
Tripe Dresser	1
Spice Maker	1
India-rubber Merchants.....	2
Other Workshops	3
Total	33

OTHER MATTERS.

Class.	Number.
Matters notified to H.M. Inspector of Factories :—	
Failure to affix Abstract of the Factory and Workshop Act	0
Action taken in matters referred to H M. Inspector as remediable under the Public Health Acts, but not under the Factory and Workshop Act	<div> <div>Notified by H.M. Inspector</div> <div>Reports (of action taken) sent to H.M. Inspector..</div> </div>
	0
	0
Underground Bakehouses :—	
Certificates granted during the year	0
In use at the end of the year	1

SUMMARY OF MEDICAL OFFICER'S REPORT FOR 1909.

Area in Statute Acres, 754.

Population (Census) 1901, 7145.

Population (Estimated) 1909, 7420.

Medical Officer of Health, Albert Hilton.

Births Registered, 221. Males, 98 ; Females, 123.

Deaths Registered, 120. „ 65 ; „ 55.

Birth Rate, 29·7. Death Rate, 16·1.

Rate of Infant Deaths, under 1 year, to 1000 Births,
108.

Death Rate from the seven principal epidemic
Diseases per 1000 of population, 1·34.

Diseases prevalent : Measles, Scarlet Fever, Enteric
Fever.

Period : Throughout the year.

What action taken ? House Inspection.

Any Schools Closed ? No.

What is the character of the Hospital Accommodation ?

For Small-pox : Ample accommodation at the
Ashton-under-Lyne and District Joint Small-pox
Hospital.

For other Infectious Diseases : None.

Is it Joint or otherwise ? Joint.

Number of Beds available for your District.

For Small-pox : No specified number.

For other Infectious Diseases : None.

Number of cases removed from your District.

Small-pox : None. Scarlet Fever : None.

Diphtheria : None. Enteric Fever : None.

Deaths in Hospital of patients from your District :
None.

How is Disinfection carried out ? Houses : Fumigation.
Apparatus used : Sulphur Fumigator.
Clothing, Bedding, &c : Thresh Disinfector.
Where situated : Joint Hospital.

Number of cases of Infectious Disease reported under
Notification Act : 70.

Are any Diseases not specifically mentioned in the
Act notifiable (for instance, Measles, Whooping
Cough, Diarrhoea, Chicken Pox, &c.) ? If so,
what are they ? Cerebro-Spinal Meningitis.

Has any arrangement been made for "voluntary"
notification of Phthisis ? No.

Is Diphtheritic Anti-Toxin supplied to Medical Prac-
titioners free of charge ? No.

Action taken under the "Housing of the Working
Classes Acts."

No. of Houses condemned : None. Closed : None.
Demolished : One.

From where is the Water Supply obtained ? What is
its condition ? Good supply from reservoirs at
Swineshaw and Greenfield.

Is it subject to your inspection ? Yes.

Is Scavenging carried out satisfactorily? Yes.

How performed:—By Sanitary Authority, Contract, or Occupiers of houses? By the Sanitary Authority.

How is the Refuse disposed of? Deposited on Tips.

Has a Destructor been provided? No.

What is the character of Drainage and the form of Sewage Disposal? The Sewage is drained by means of well constructed sewers into the Ashton-under-Lyne Sewage Works, where it undergoes treatment by precipitation and filtration by contact beds. The sludge is afterwards pressed into cakes.

Canal Boats: None. Number inspected: None

What is the condition of the Bakehouses? Good.

What is the condition of the Slaughter-houses? Good.

Has a Public Abattoir been provided? Not yet.

What is the condition of the Lodging-houses? There are none.

What is the sanitary condition of the Schools? Good.

Dairies, Cowsheds, and Milkshops—Are they periodically inspected? Yes. What is their condition? Good.

Have Regulations been made under the order of the L.G.B.? Yes. Are they enforced? Yes.

Amount of air space in cubic feet required for each cow: 600 cubic feet.

No. of Cowkeepers: 8. No. on Register: 8.

No. of Dairymen or Purveyors of Milk (other than Cowkeepers): 12. No. on Register: 12.

Food unfit for Human Consumption—Amount seized: None.

Department of Inspector of Nuisances.

No. of Notices served : 25. Nuisances remedied : 25.

No. of Legal Proceedings taken and result : None.

Closet accommodation of the District.

No. of Privy Middens : 129. Pail Closets : 87.

Fresh Water Closets : 273. Waste Water Closets : 1489.

No. of Privy Middens converted during 1909 :
To W.C.'s, 80 ; to Pails &c., None.

Smoke.

No. of Observations : 94. No. of Legal Proceedings taken and result : None.

What is the time limit allowed for the emission of black smoke per hour ? 8 minutes.

Has the Authority adopted—

“The Infectious Disease (Prevention) Act, 1890” ?
Yes.

“The Public Health Acts Amendment Act, 1890” ? Yes.

“The Notification of Births Act, 1907” ? No.

Has a Health Visitor been appointed ? No.

Notable Sanitary improvements during 1909.

The Sewerage Scheme, by which the houses and land at and about Hurst Cross are now efficiently drained, was completed.

Chief Sanitary requirements of District.

Hospital accommodation for Infectious Diseases other than Small-pox.

Refuse Destructor.

